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## PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

02-Dec-2010

**Company:** 118657

Room/Area ID: Reference #:



 Sales Order #:
 C002726

 CCC Panel #:
 P68820

 Date In:
 19-Oct-2010

 Date Out:
 16-Nov-2010

Days In Service: 28

**CCC Panel # P68820** 

ISA Class G1 Mild

Copper Corrosion 246 Å/30 Days

Silver Corrosion 222 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68820

The electrolytic reduction analysis on Corrosion Classification Coupon #P68820 shows the presence of only very low concentrations of contaminants in the environment tested. The hydrogen sulfide level is not expected to exceed 3 ppb and the sulfur dioxide level should be less than 10 ppb. Corrosion is not a factor in determining equipment reliability in this environment.

Your local representative for additional information and assistance is:

Environmental Health and Eng

117 Fourth Avenue, Needham MA 02494, USA

tminegishi@eheinc.com

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922 Email: purafil@purafil.com / Internet: http://www.purafil.com

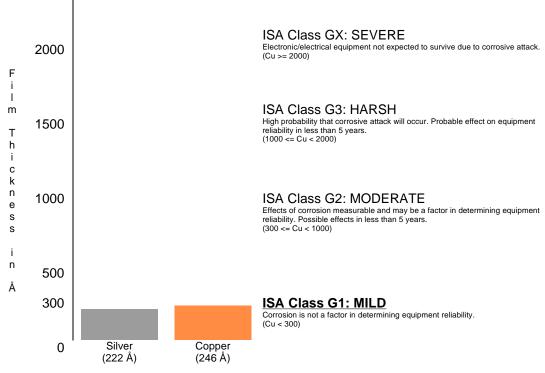
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## PURAFIL CCC # P68820 Analysis Results

Corrosion Film Composition Projections				Gold Coupon - Magnified 20x
	<u>30 Days</u>	1 Year	<u>5 Year</u>	
Copper Films				
Cu <sub>2</sub> S	0 Å	0 Å	0 Å	
Cu <sub>2</sub> O	179 Å	269 Å	351 Å	
Unknowns	67 Å	100 Å	131 Å	
Totals	246 Å	369 Å	482 Å	
Silver Films	_	_	_	
AgCl	0 Å	0 Å	0 Å	
Ag <sub>2</sub> S	222 Å	2709 Å	13543 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	222 Å	2709 Å	13543 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

## **Equipment Reliability Correlation** (ISA Standard S71.04-1985 for Copper)



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